

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100118\
 Data File : VX004877.D
 Acq On : 01 Oct 2018 18:09
 Operator : JC/MD
 Sample : J5135-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW508-2327

Quant Time: Oct 02 02:41:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	207781	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	341008	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	334666	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	181026	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	167180	56.32	ug/l	0.00
Spiked Amount						
			Recovery	=	112.64%	
35) Dibromofluoromethane	5.50	113	140889	48.75	ug/l	0.00
Spiked Amount						
			Recovery	=	97.50%	
50) Toluene-d8	8.72	98	501799	52.23	ug/l	0.00
Spiked Amount						
			Recovery	=	104.46%	
62) 4-Bromofluorobenzene	11.14	95	174765	50.49	ug/l	0.00
Spiked Amount						
			Recovery	=	100.98%	

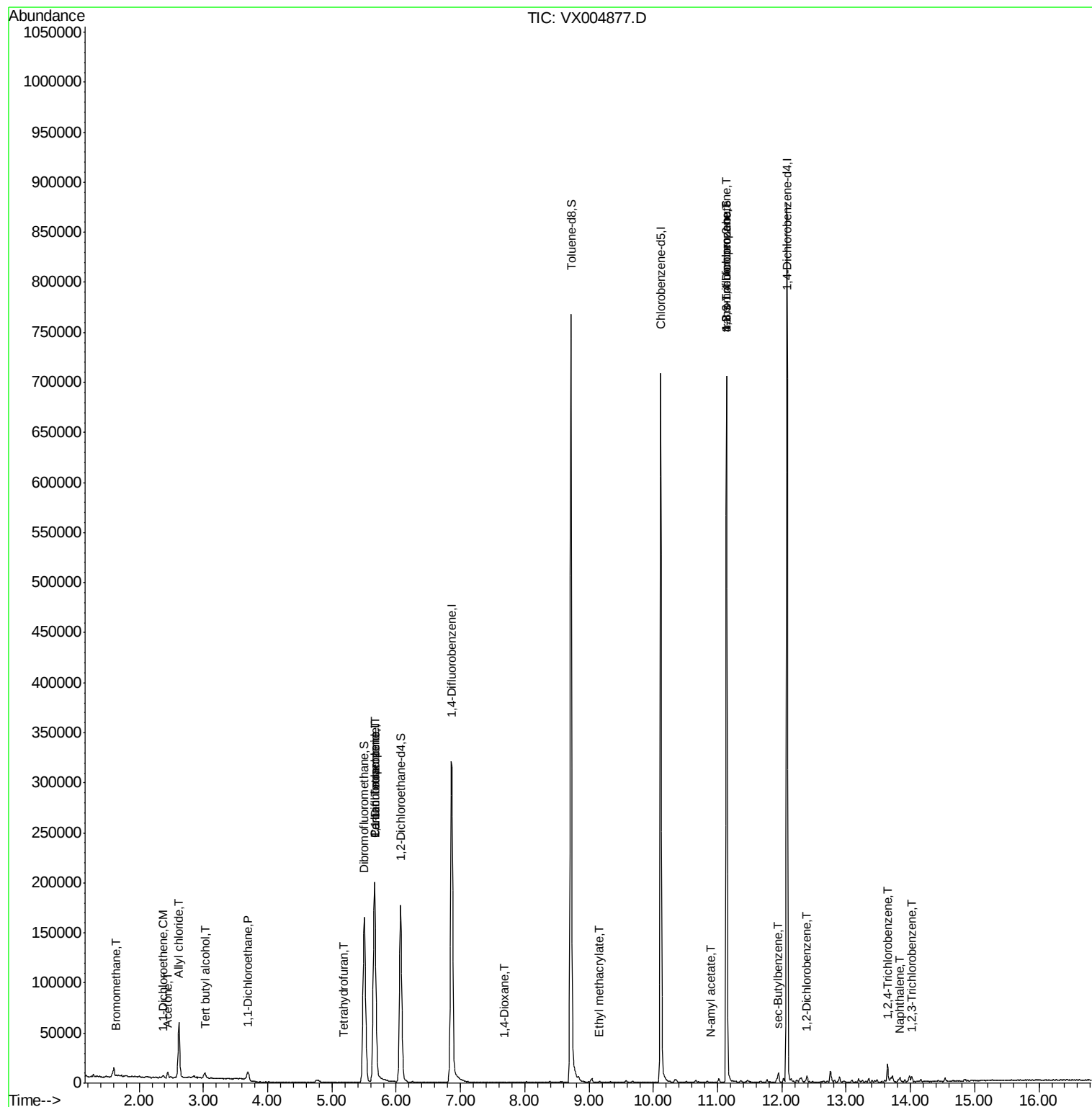
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	395	0.207	ug/l	89
6) Chloroethane	1.74	64	2471	Below Cal	#	69
11) Tert butyl alcohol	3.03	59	3694	4.451	ug/l #	74
12) 1,1-Dichloroethene	2.38	96	679	0.302	ug/l	90
14) Allyl chloride	2.62	41	5443	1.108	ug/l #	57
16) Acetone	2.45	43	5270	3.041	ug/l	92
20) Methylene Chloride	2.85	84	538	Below Cal	#	64
24) 1,1-Dichloroethane	3.70	63	10513	2.131	ug/l	97
29) Tetrahydrofuran	5.17	42	428	0.270	ug/l #	62
36) 1,1-Dichloropropene	5.67	75	14435	3.661	ug/l #	50
38) Carbon Tetrachloride	5.67	117	18363	4.430	ug/l #	15
49) 1,4-Dioxane	7.68	88	22	0.258	ug/l #	1
56) Ethyl methacrylate	9.15	69	43	2.870	ug/l #	1
74) N-amyl acetate	10.90	43	84	1.761	ug/l #	40
76) 1,2,3-Trichloropropane	11.14	75	86543	21.329	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.44	105	123	Below Cal		79
81) trans-1,4-Dichloro-2-buten	11.14	75	86543	57.848	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	333	Below Cal		77
85) sec-Butylbenzene	11.95	105	4654	0.407	ug/l	84
91) 1,2-Dichlorobenzene	12.40	146	1636	0.253	ug/l	92
93) 1,2,4-Trichlorobenzene	13.65	180	3882	0.856	ug/l	95
95) Naphthalene	13.83	128	2574	0.888	ug/l #	84
96) 1,2,3-Trichlorobenzene	14.02	180	1148	0.245	ug/l #	78

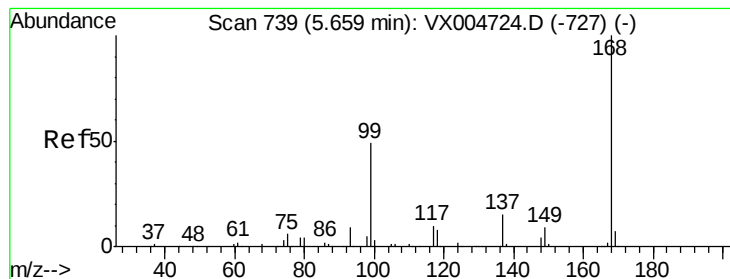
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 26 14:17:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

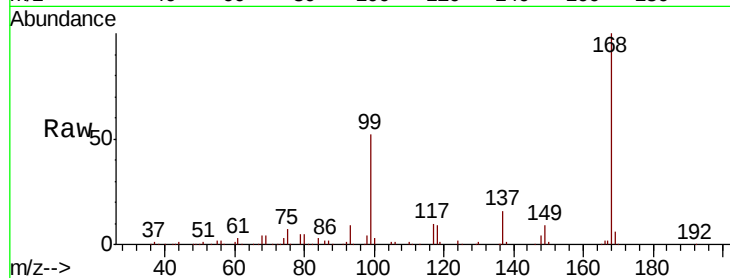
SA-TW508-2327

Tot Ion:168 Resp: 207781

Ion Ratio Lower Upper

168 100

99 51.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

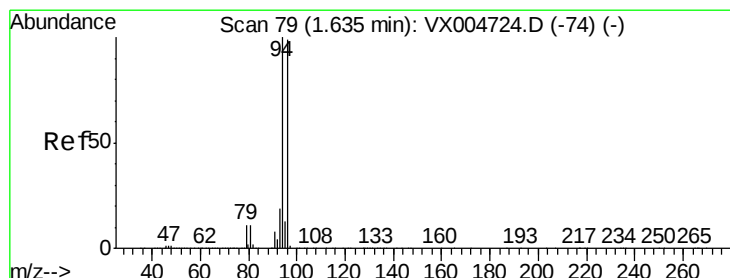
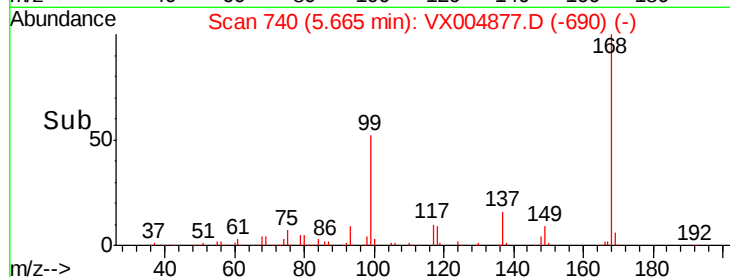
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.207 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004877.D

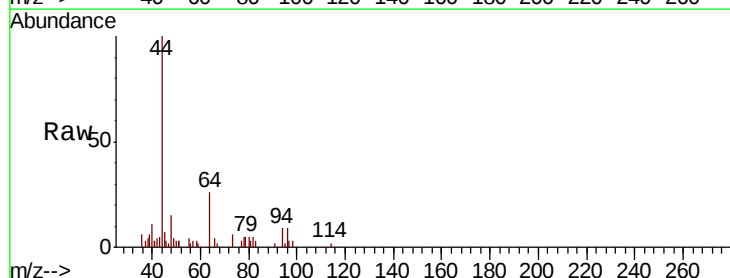
Acq: 01 Oct 2018 18:09

Tgt Ion: 94 Resp: 395

Ion Ratio Lower Upper

94 100

96 103.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

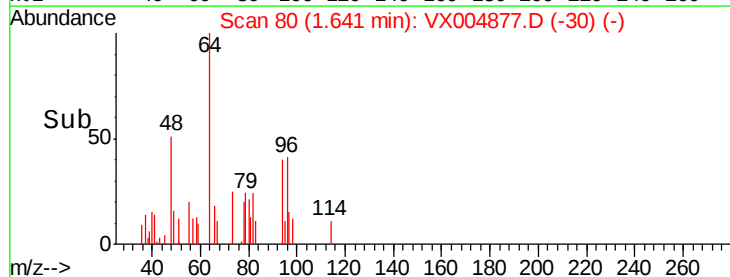
150

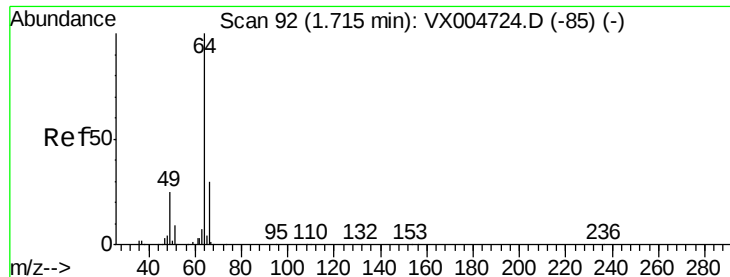
100

50

0

Time--> 1.60 1.65





#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

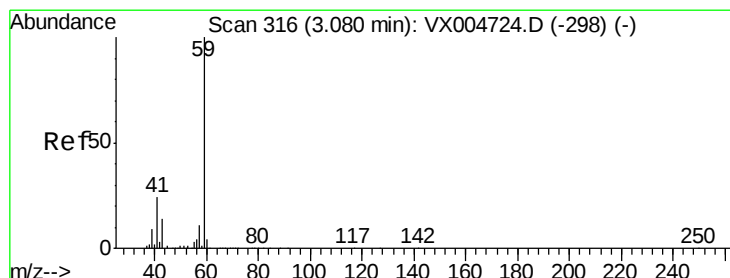
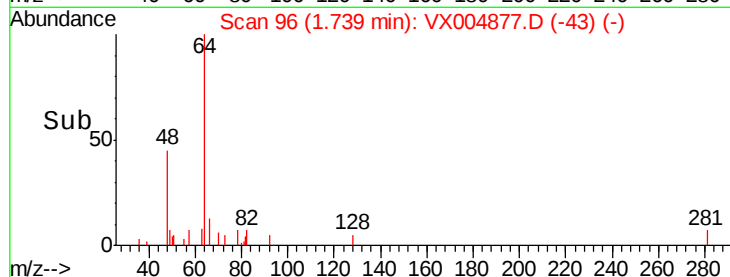
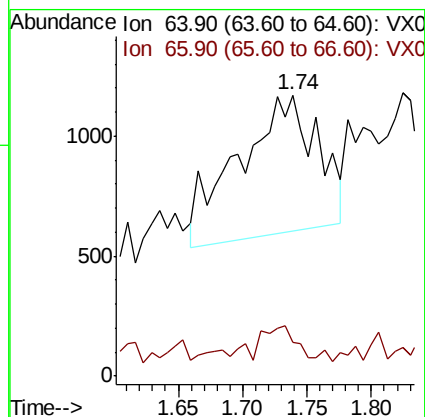
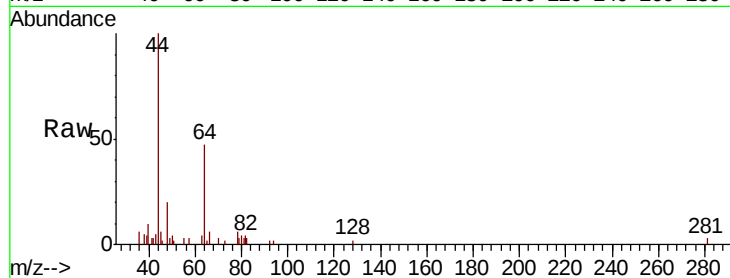
SA-TW508-2327

Tot Ion: 64 Resp: 2471

Ion Ratio Lower Upper

64 100

66 13.5 24.6 36.8#



#11

Tert butyl alcohol

Concen: 4.451 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX004877.D

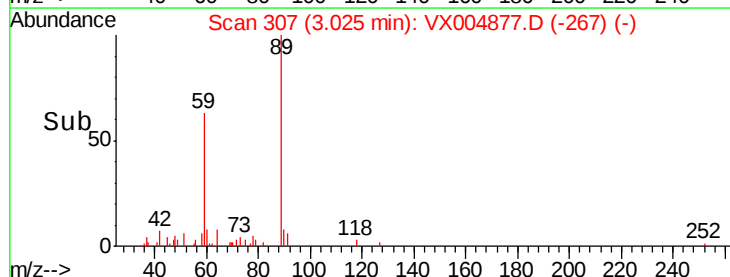
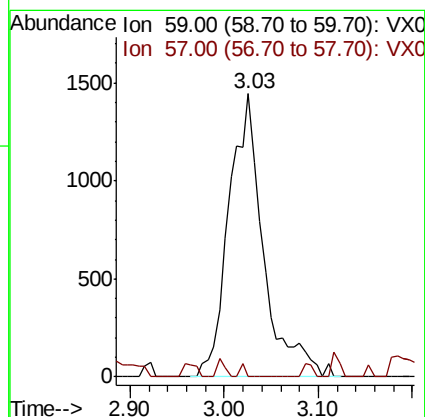
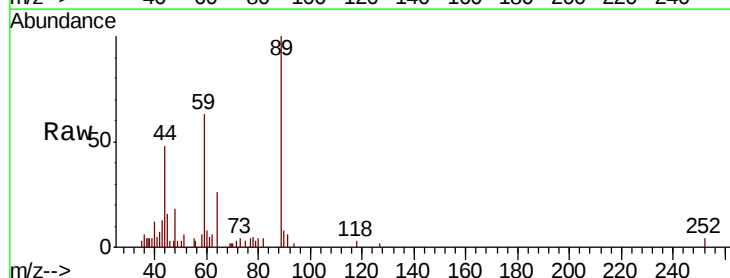
Acq: 01 Oct 2018 18:09

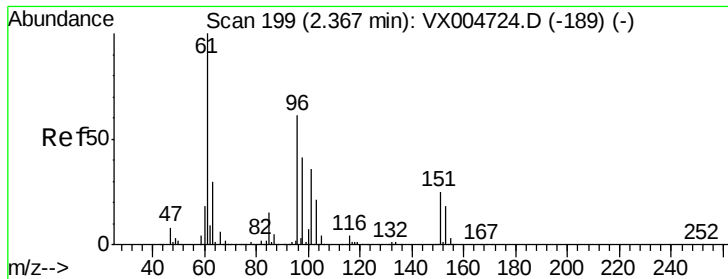
Tgt Ion: 59 Resp: 3694

Ion Ratio Lower Upper

59 100

57 0.7 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 0.302 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-2327

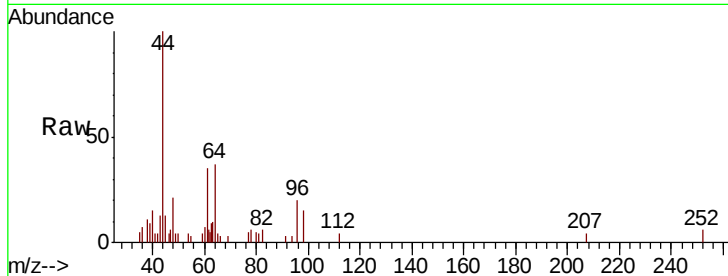
Tot Ion: 96 Resp: 679

Ion Ratio Lower Upper

96 100

61 175.3 128.8 193.2

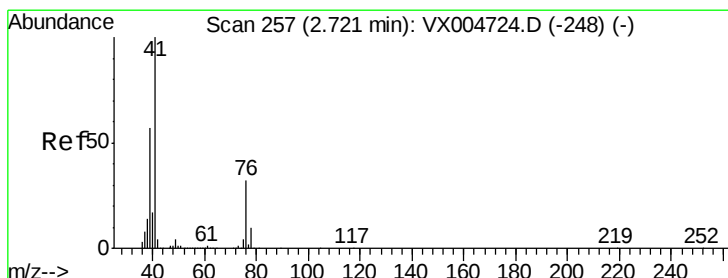
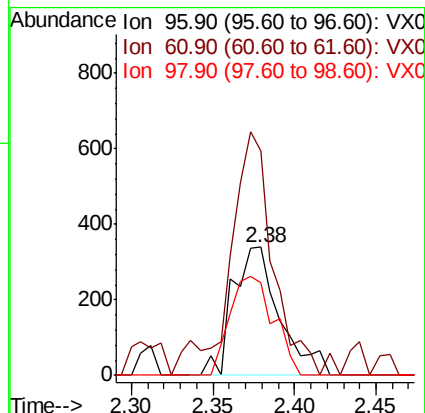
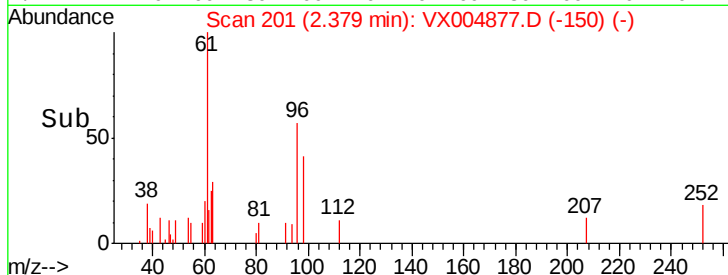
98 72.4 52.2 78.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#14

Allyl chloride

Concen: 1.108 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.10 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

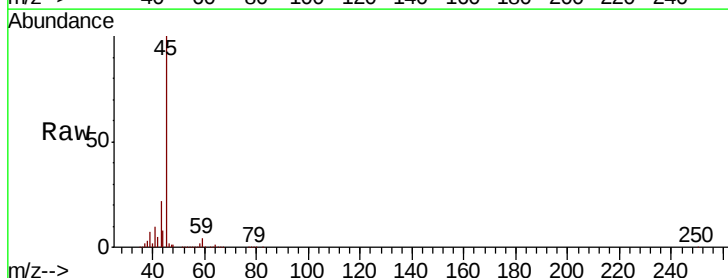
Tgt Ion: 41 Resp: 5443

Ion Ratio Lower Upper

41 100

39 87.8 48.9 73.3#

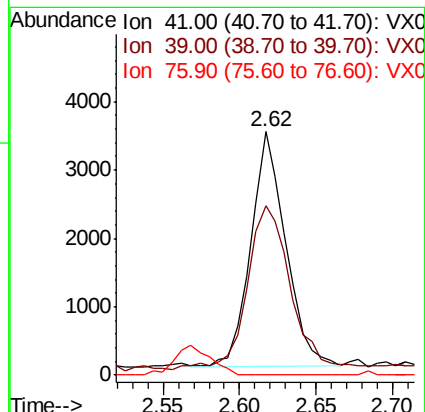
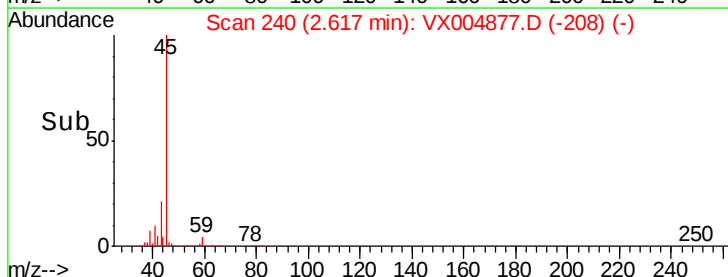
76 0.0 26.7 40.1#

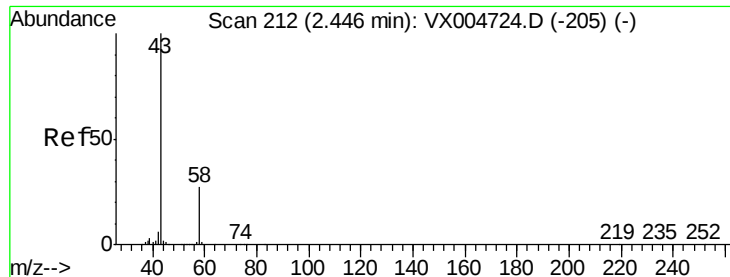


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 3.041 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

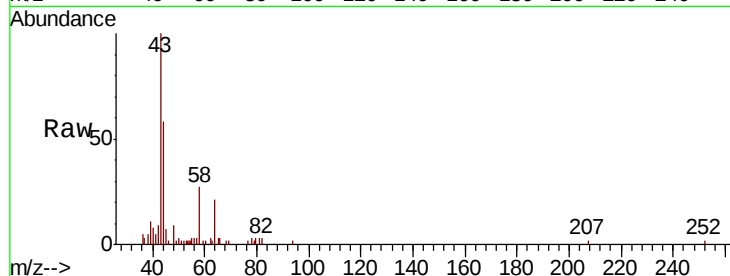
SA-TW508-2327

Tot Ion: 43 Resp: 5270

Ion Ratio Lower Upper

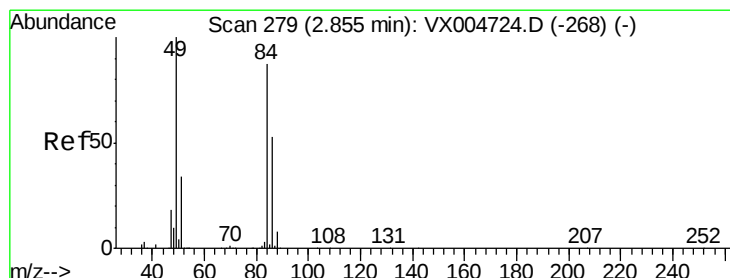
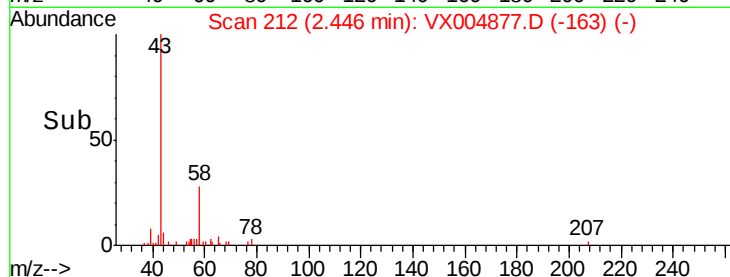
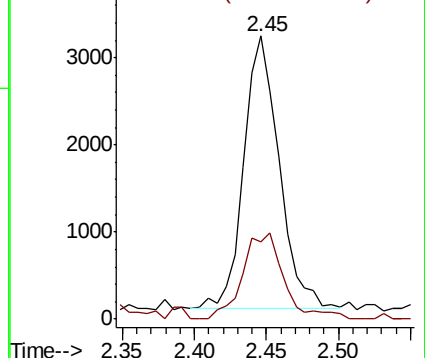
43 100

58 28.4 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

Tgt Ion: 84 Resp: 538

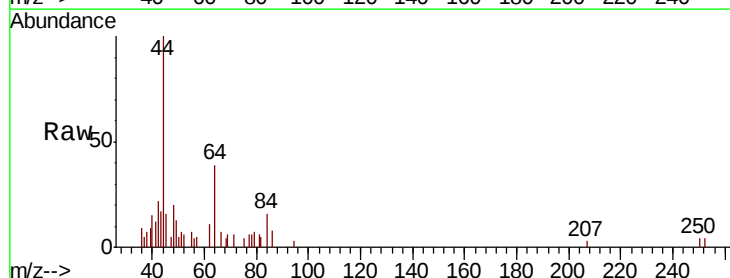
Ion Ratio Lower Upper

84 100

49 77.3 101.2 151.8#

51 16.2 29.5 44.3#

86 47.7 52.3 78.5#

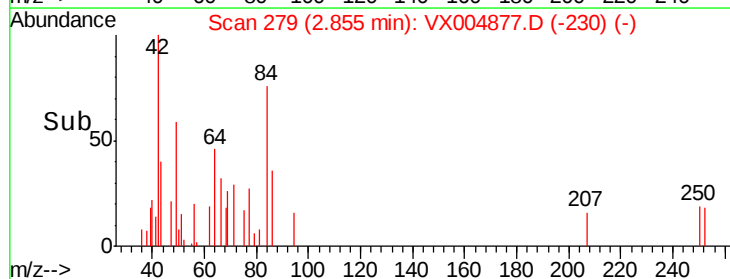
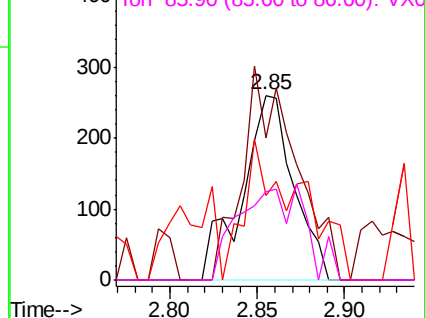


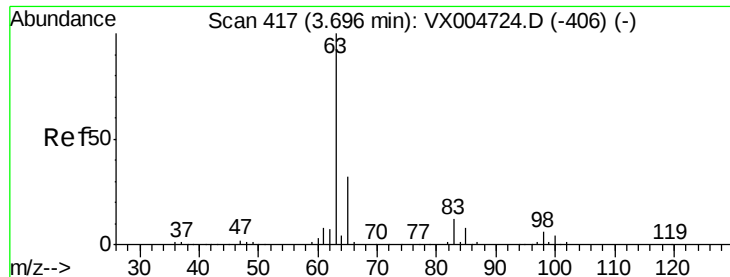
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#24

1,1-Dichloroethane

Concen: 2.131 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

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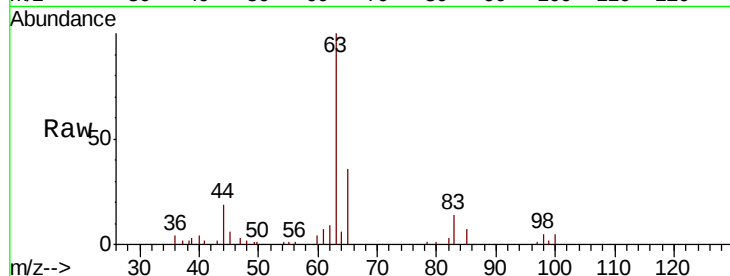
Tot Ion: 63 Resp: 10513

Ion Ratio Lower Upper

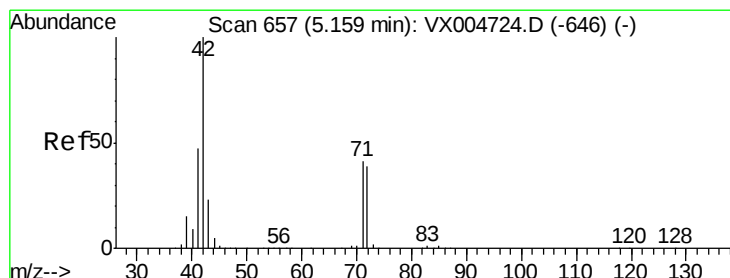
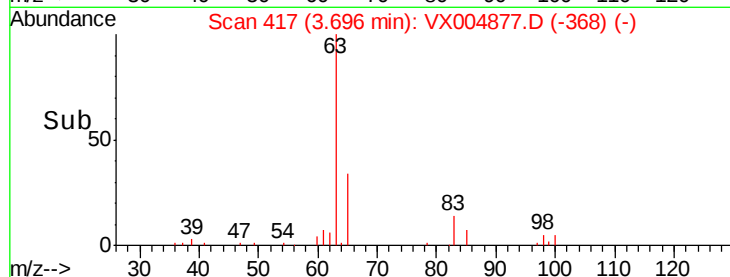
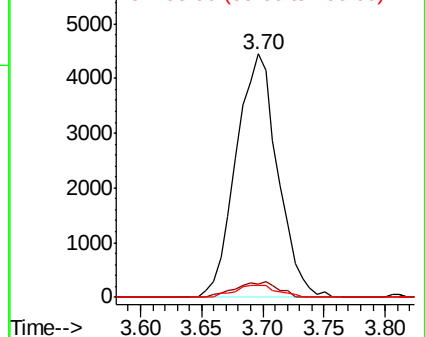
63 100

98 5.4 3.5 10.4

100 5.0 2.4 7.1



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#29

Tetrahydrofuran

Concen: 0.270 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

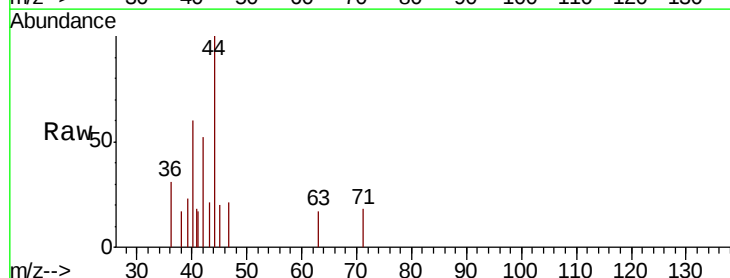
Tgt Ion: 42 Resp: 428

Ion Ratio Lower Upper

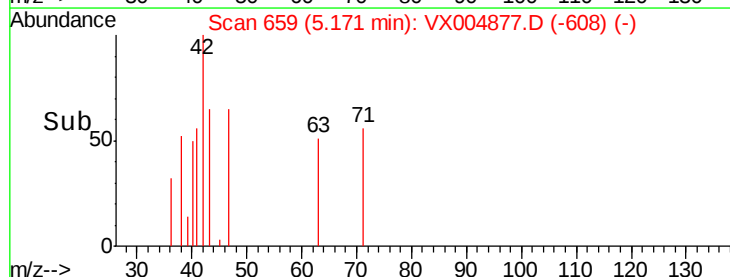
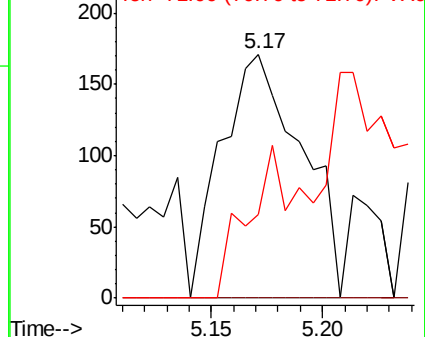
42 100

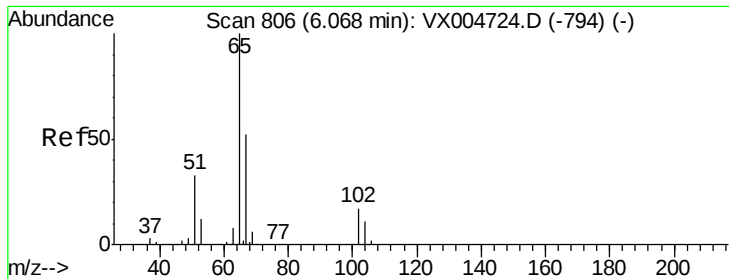
72 0.0 37.4 56.0#

71 41.4 34.5 51.7



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 56.325 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

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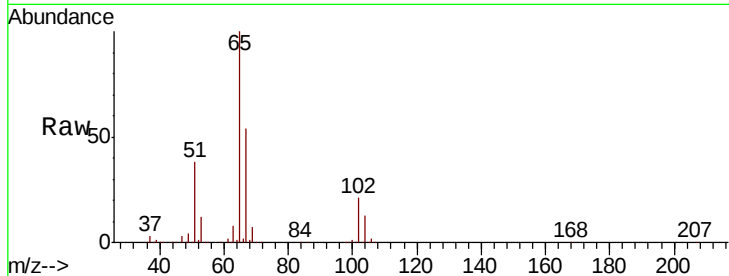
SA-TW508-2327

Tot Ion: 65 Resp: 167180

Ion Ratio Lower Upper

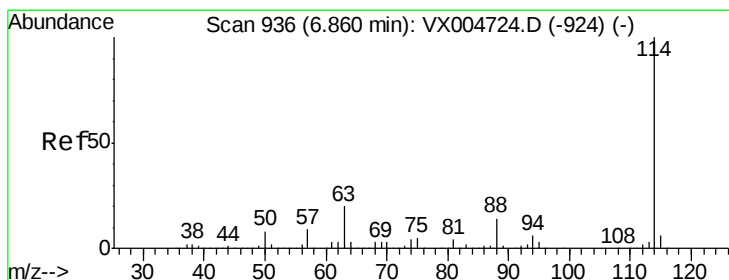
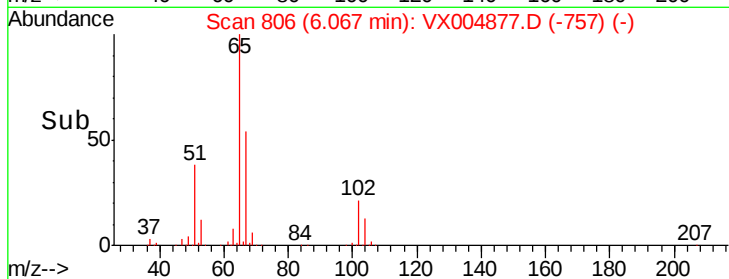
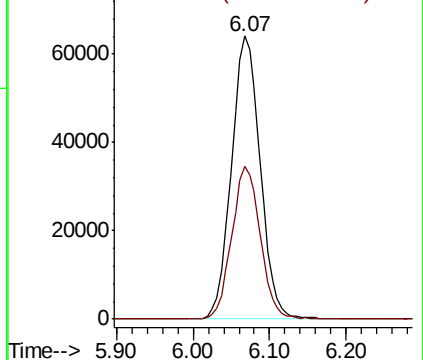
65 100

67 53.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

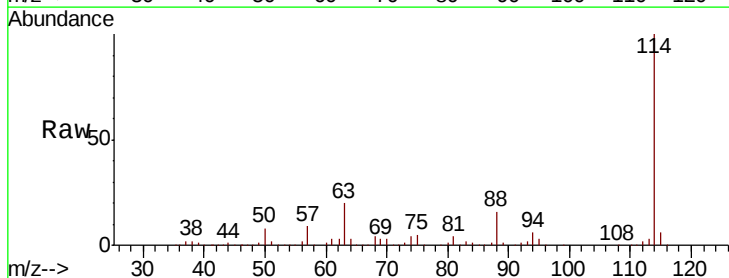
Tgt Ion: 114 Resp: 341008

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.0

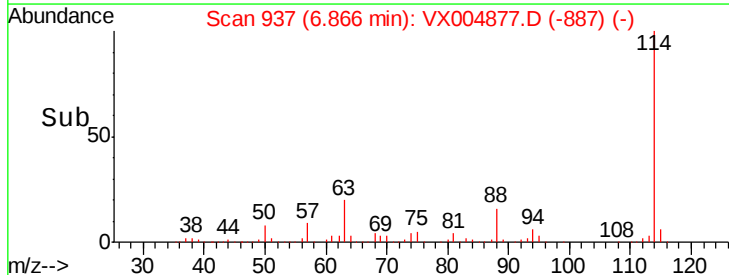
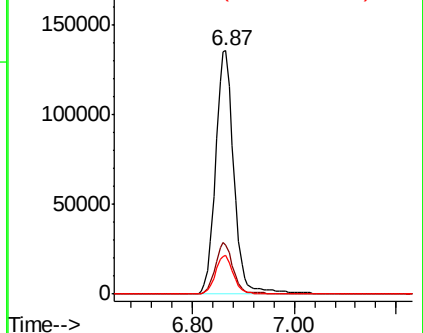
88 15.9 0.0 30.4

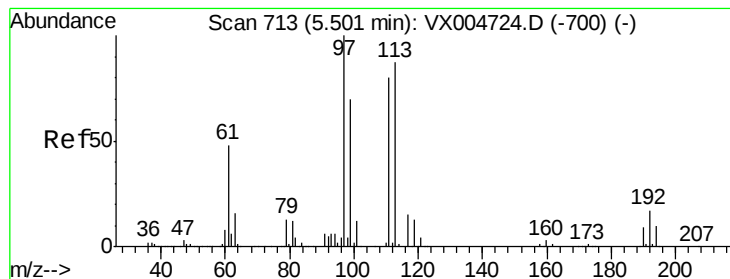


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.749 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

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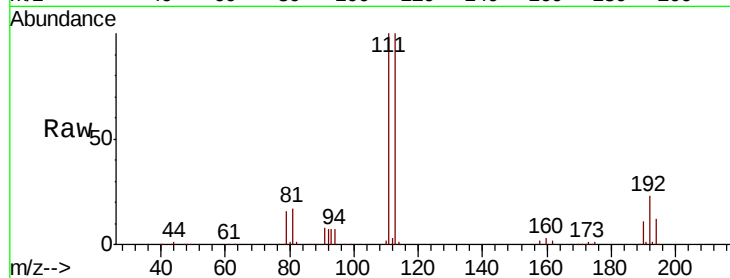
Tot Ion:113 Resp: 140889

Ion Ratio Lower Upper

113 100

111 102.9 82.4 123.6

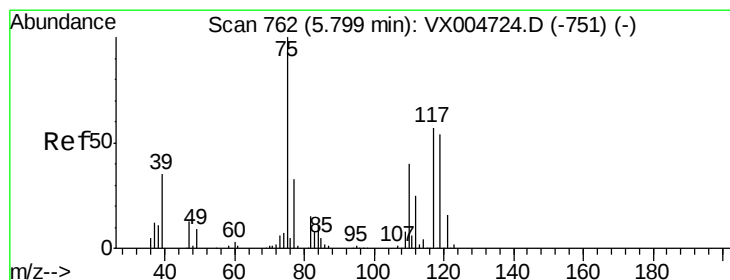
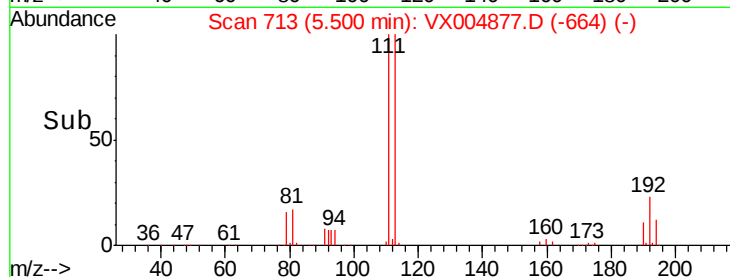
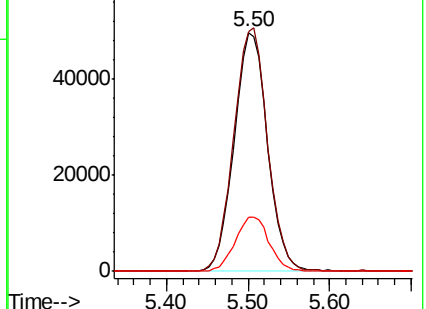
192 23.3 19.4 29.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.661 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

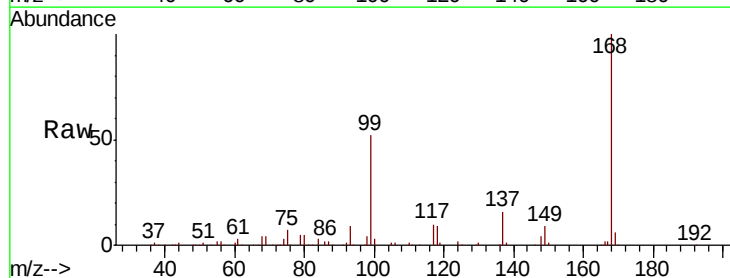
Tgt Ion: 75 Resp: 14435

Ion Ratio Lower Upper

75 100

110 9.6 18.0 54.0#

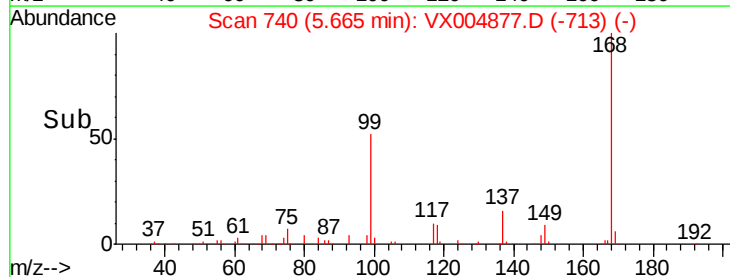
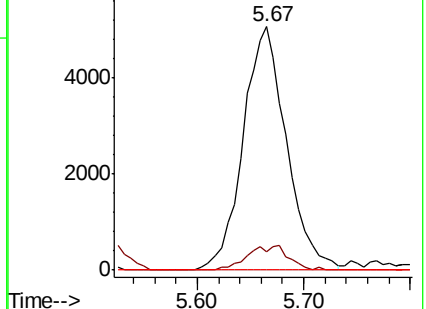
77 0.0 24.6 36.8#

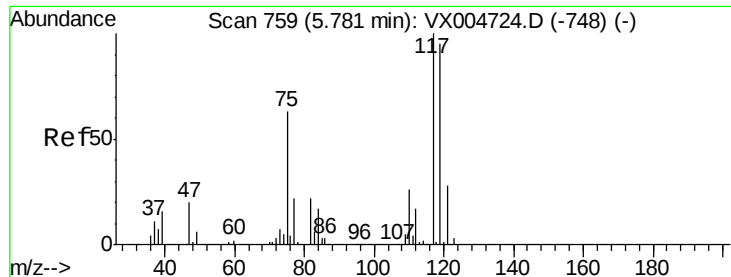


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.430 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-2327

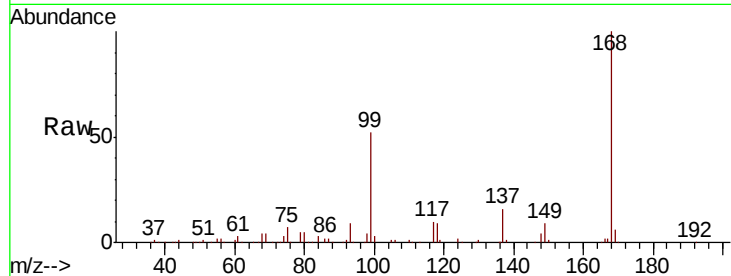
Tot Ion:117 Resp: 18363

Ion Ratio Lower Upper

117 100

119 5.3 78.8 118.2#

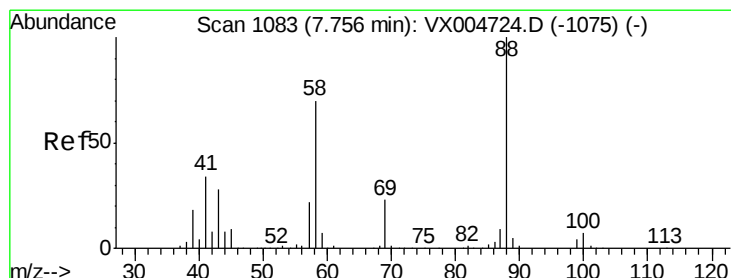
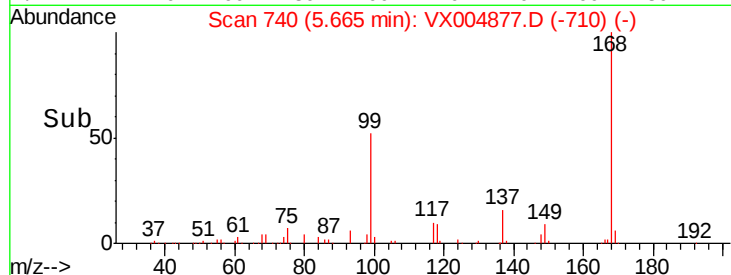
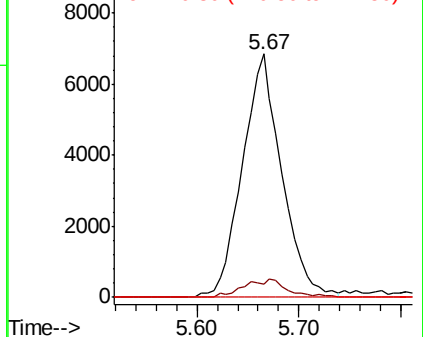
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.258 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.07 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

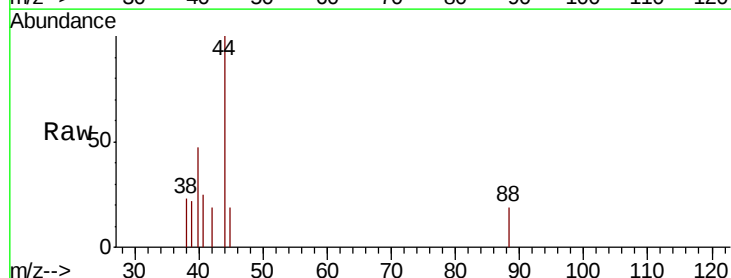
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 240.9 24.7 37.1#

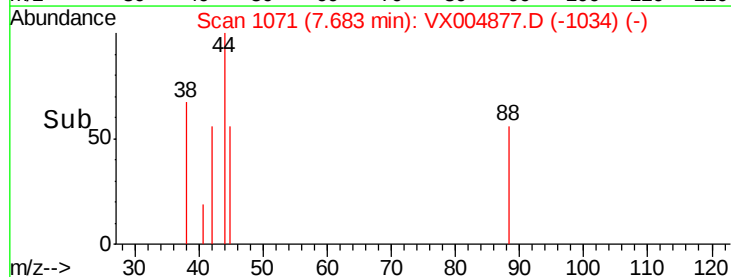
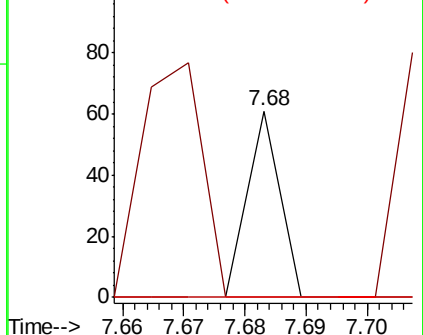
58 0.0 55.3 82.9#

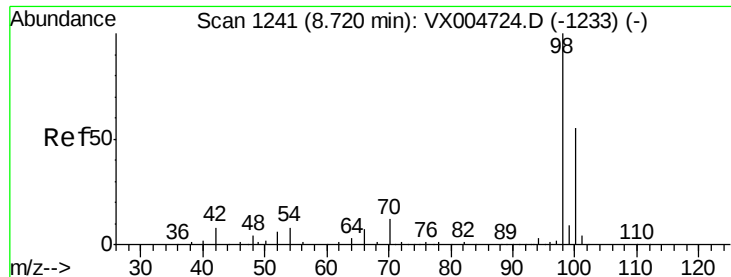


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

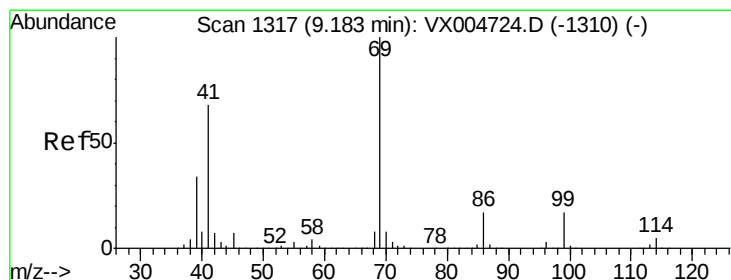
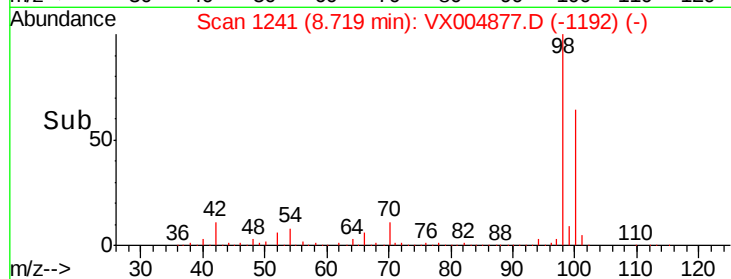
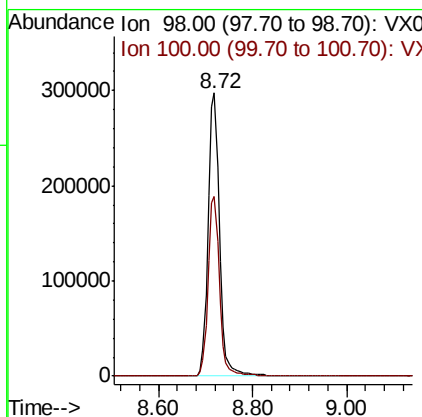
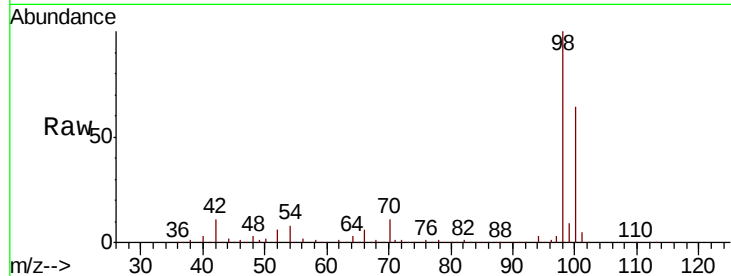




#50
Toluene-d8
Concen: 52.227 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004877.D
Acq: 01 Oct 2018 18:09

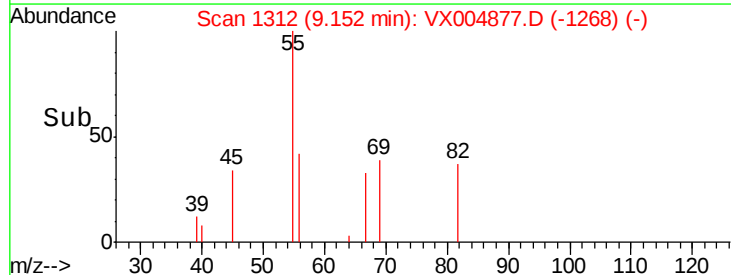
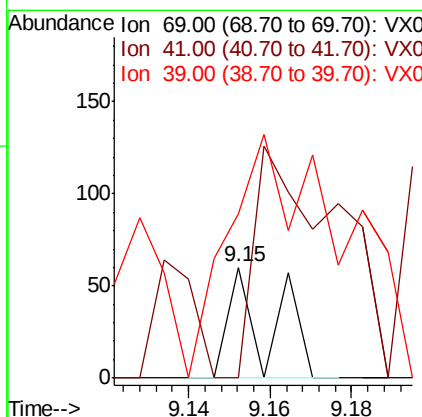
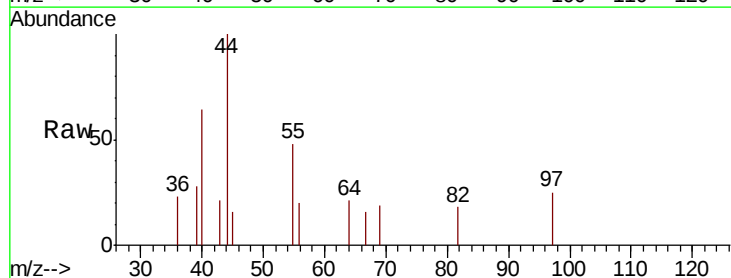
Instrument :
MSVOA_X
ClientSampleId :
SA-TW508-2327

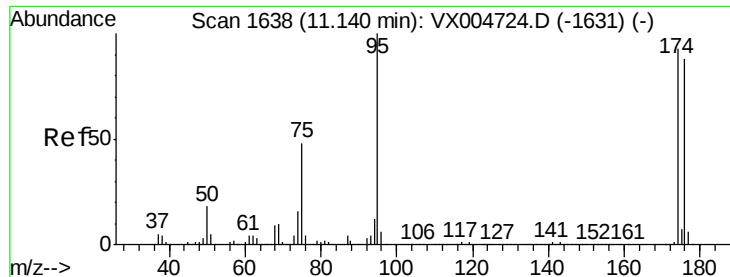
Tot Ion: 98 Resp: 501799
Ion Ratio Lower Upper
98 100
100 63.3 52.9 79.3



#56
Ethyl methacrylate
Concen: 2.870 ug/l
RT: 9.15 min Scan# 1312
Delta R.T. -0.03 min
Lab File: VX004877.D
Acq: 01 Oct 2018 18:09

Tgt Ion: 69 Resp: 43
Ion Ratio Lower Upper
69 100
41 411.6 51.0 76.4#
39 602.3 26.1 39.1#

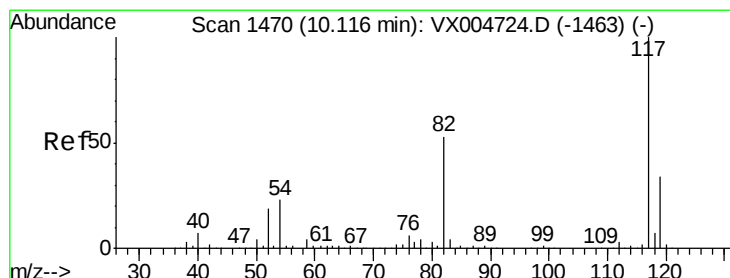
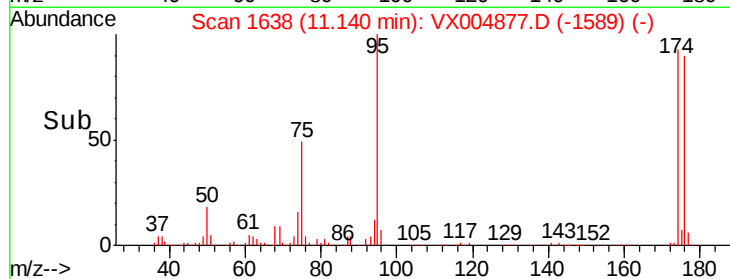
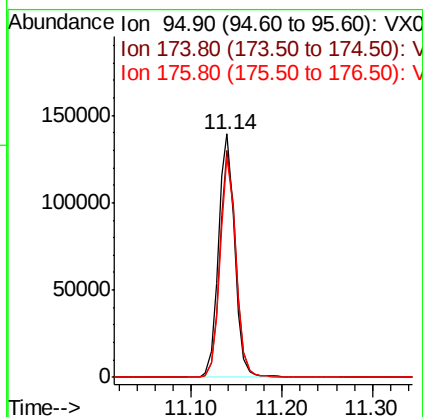
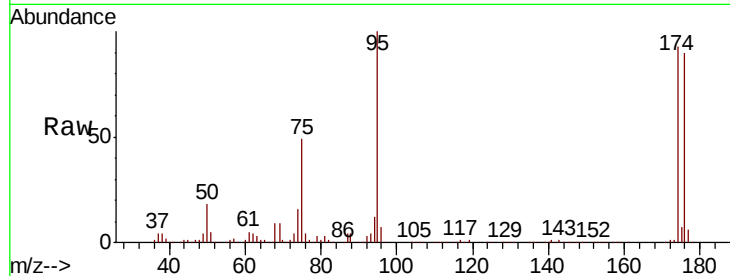




#62
4-Bromofluorobenzene
Concen: 50.490 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004877.D
Acq: 01 Oct 2018 18:09

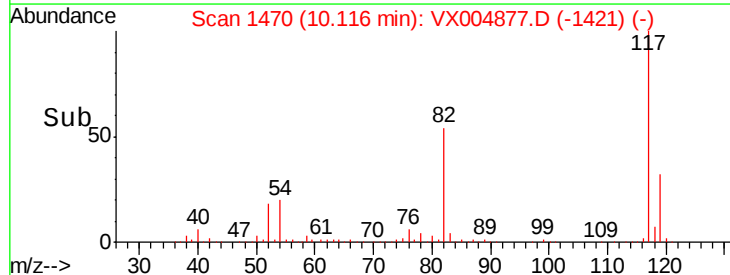
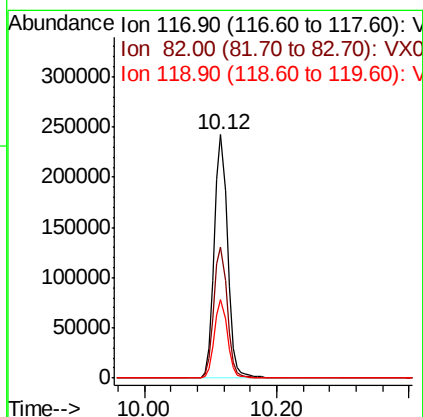
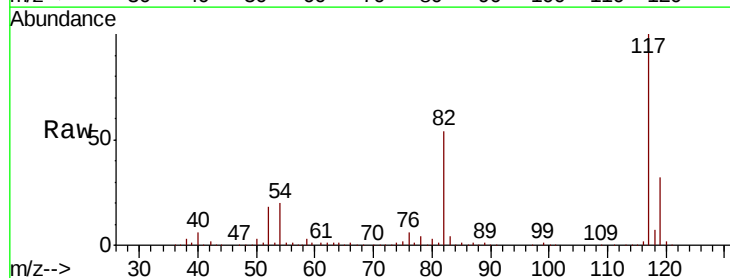
Instrument :
MSVOA_X
ClientSampleId :
SA-TW508-2327

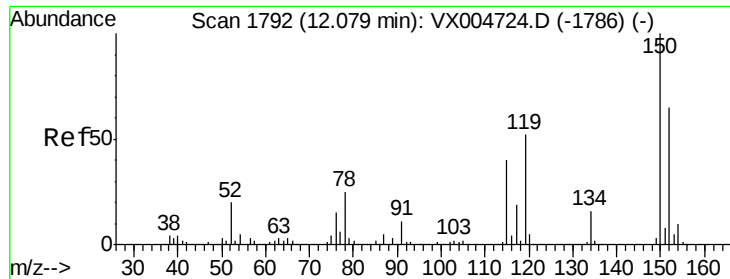
Tot Ion: 95 Resp: 174765
Ion Ratio Lower Upper
95 100
174 92.1 0.0 185.2
176 88.1 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004877.D
Acq: 01 Oct 2018 18:09

Tgt Ion: 117 Resp: 334666
Ion Ratio Lower Upper
117 100
82 54.0 47.8 71.6
119 32.4 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-2327

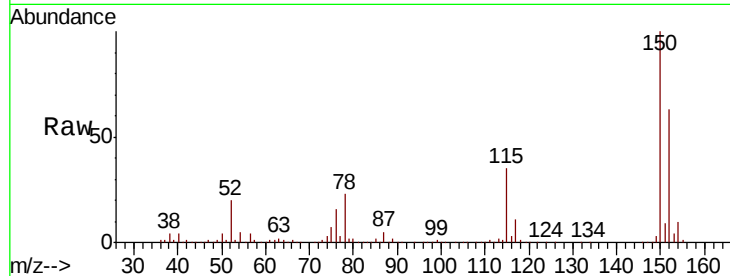
Tot Ion:152 Resp: 181026

Ion Ratio Lower Upper

152 100

115 55.4 39.0 117.0

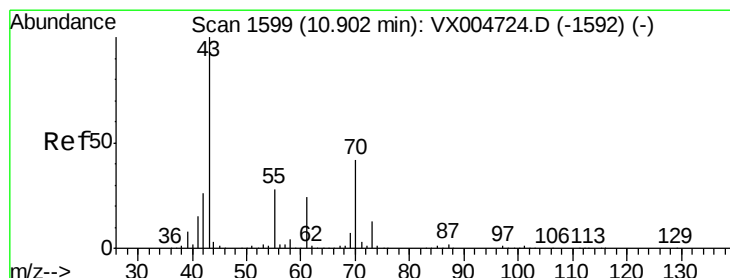
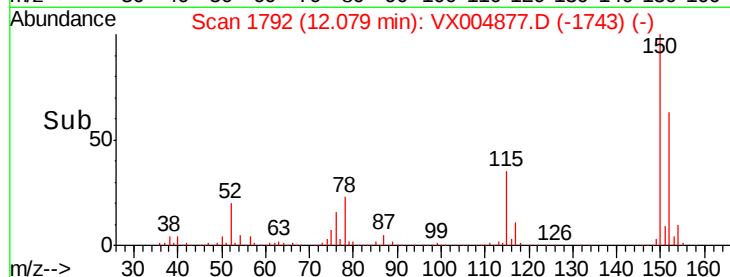
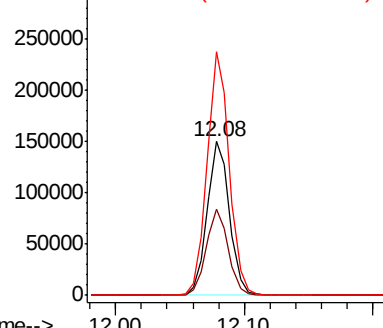
150 157.2 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.761 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

Tgt Ion: 43 Resp: 84

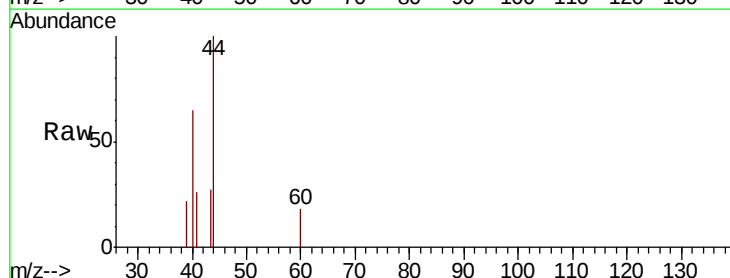
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 0.0 21.8 32.8#

61 0.0 20.6 30.8#

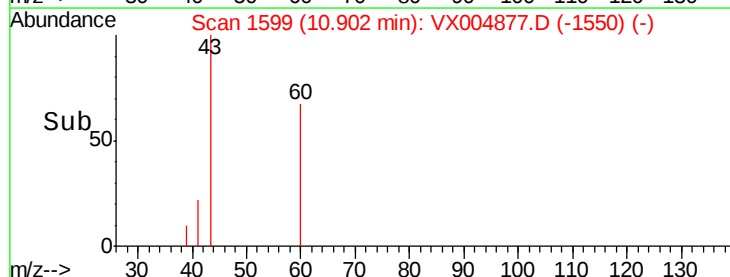
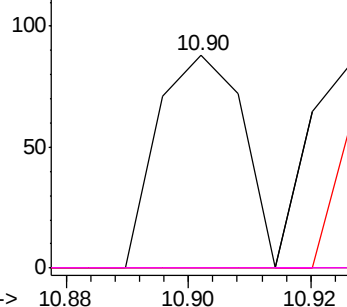


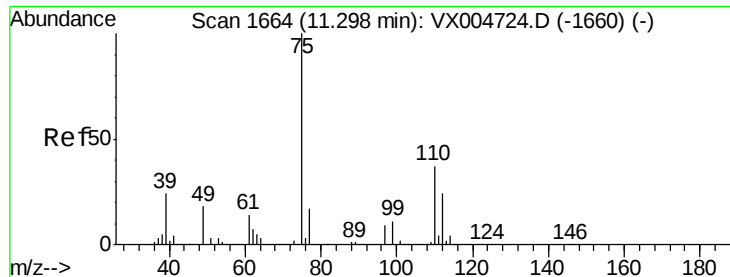
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 21.329 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

Instrument :

MSVOA_X

ClientSampleId :

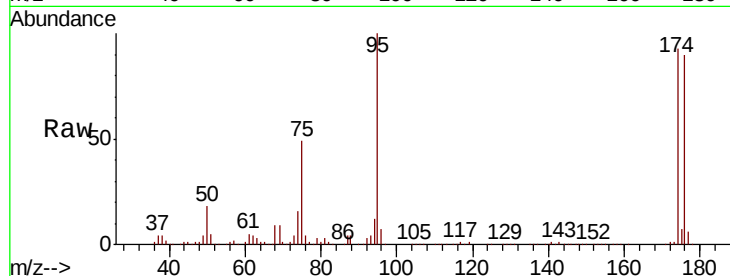
SA-TW508-2327

Tot Ion: 75 Resp: 86543

Ion Ratio Lower Upper

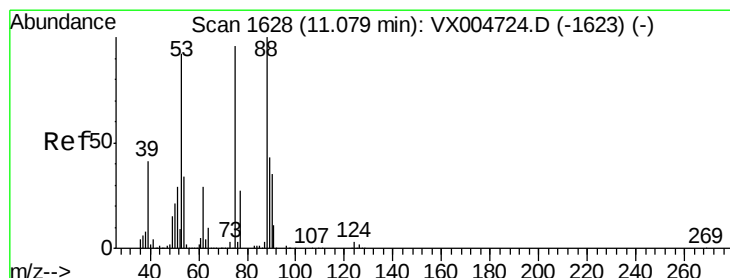
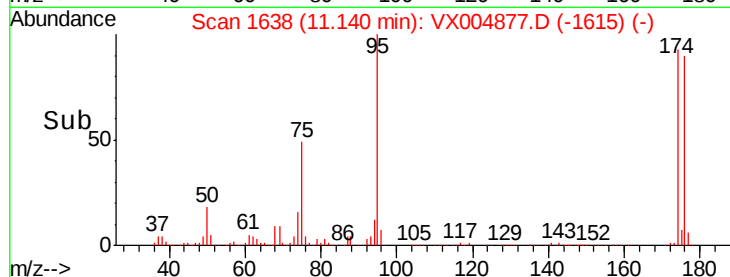
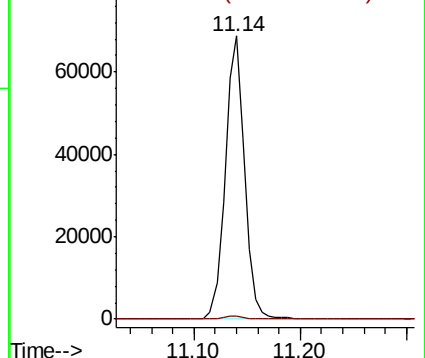
75 100

77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 57.848 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004877.D

Acq: 01 Oct 2018 18:09

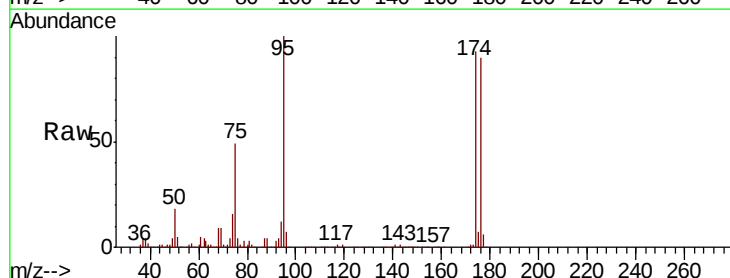
Tgt Ion: 75 Resp: 86543

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

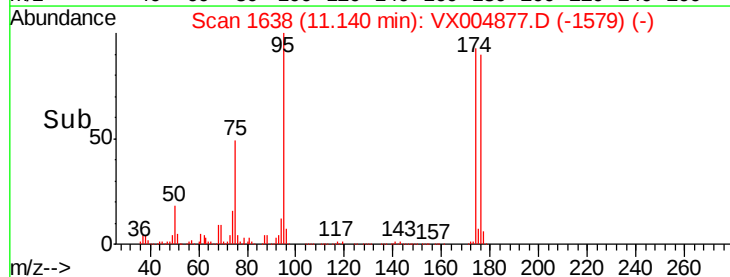
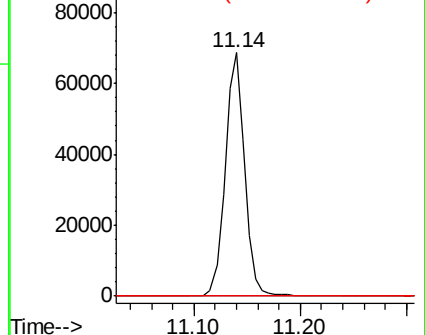
89 0.0 37.2 55.8#

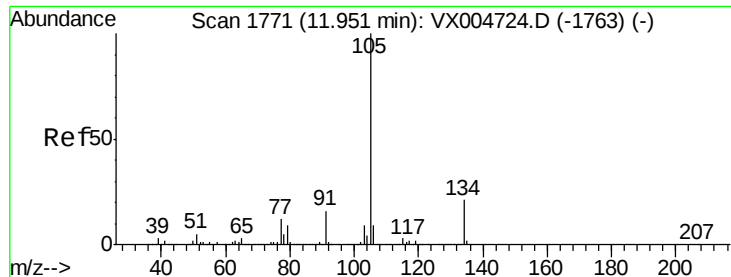


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

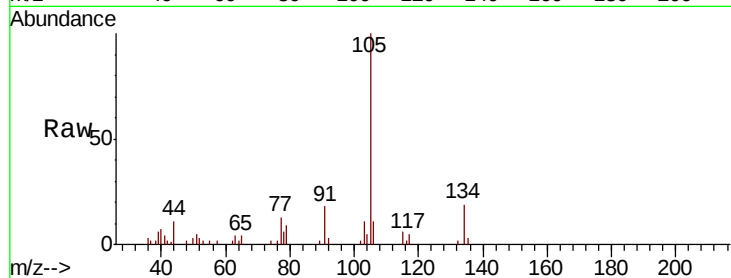




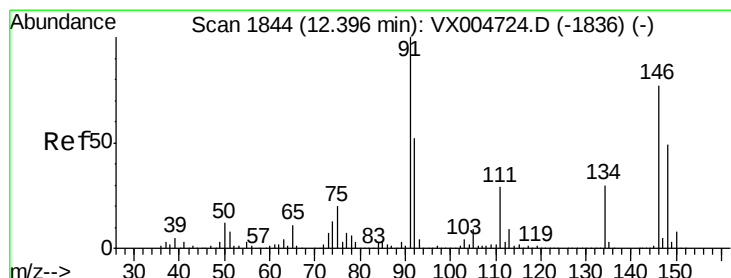
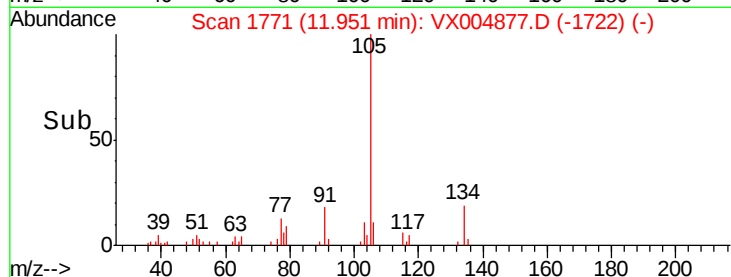
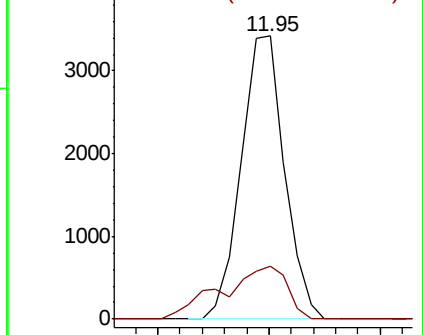
#85
 sec-Butylbenzene
 Concen: 0.407 ug/l
 RT: 11.95 min Scan# 1771
 Delta R.T. -0.00 min
 Lab File: VX004877.D
 Acq: 01 Oct 2018 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW508-2327

Tot Ion:105 Resp: 4654
 Ion Ratio Lower Upper
 105 100
 134 28.4 10.5 31.5

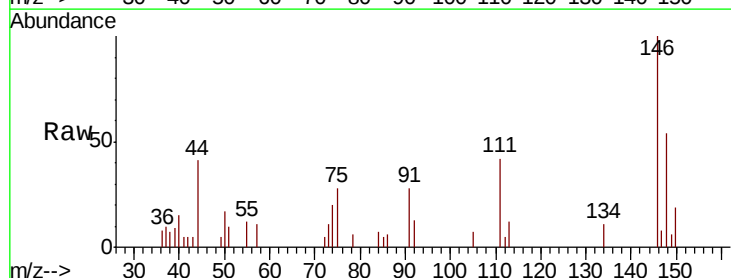


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V

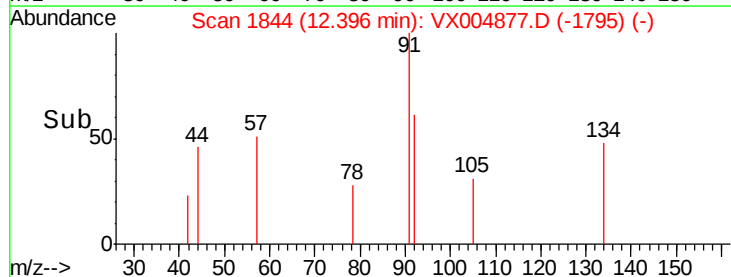
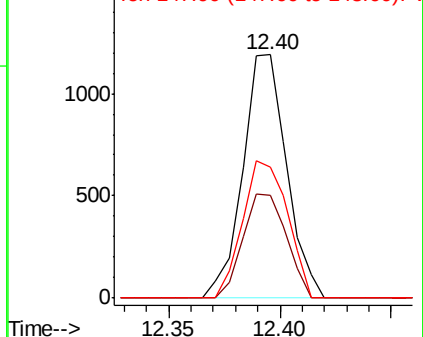


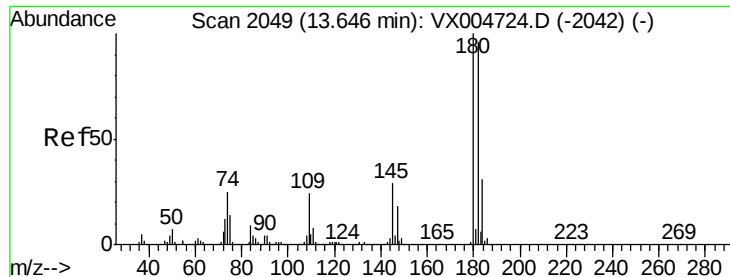
#91
 1,2-Dichlorobenzene
 Concen: 0.253 ug/l
 RT: 12.40 min Scan# 1844
 Delta R.T. -0.00 min
 Lab File: VX004877.D
 Acq: 01 Oct 2018 18:09

Tgt Ion:146 Resp: 1636
 Ion Ratio Lower Upper
 146 100
 111 42.1 19.4 58.1
 148 57.5 32.8 98.3



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

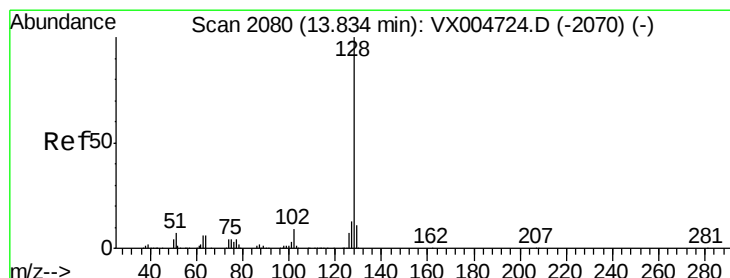
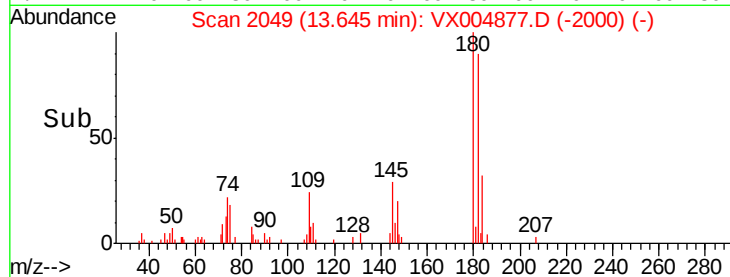
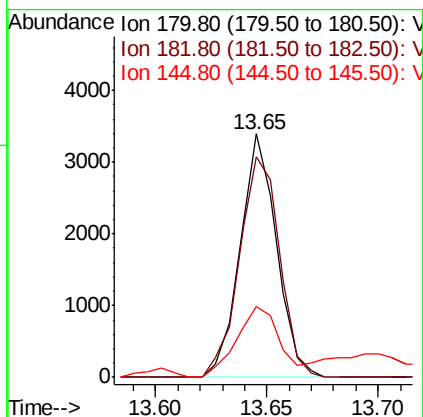
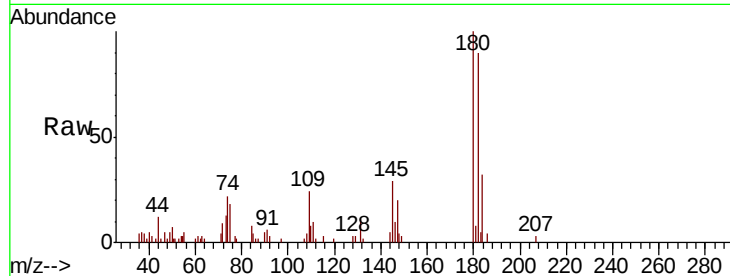




#93
 1,2,4-Trichlorobenzene
 Concen: 0.856 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX004877.D
 Acq: 01 Oct 2018 18:09

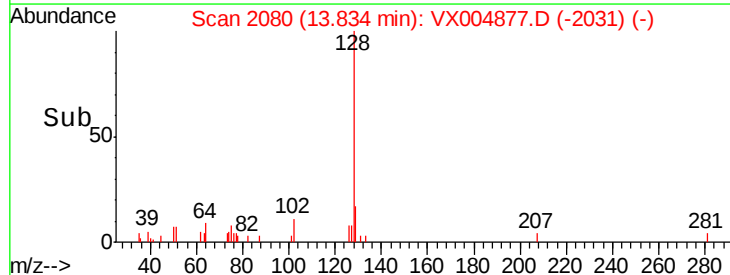
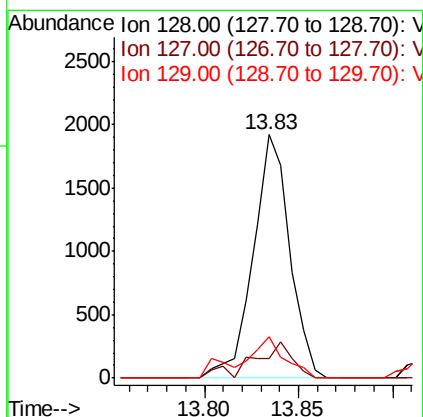
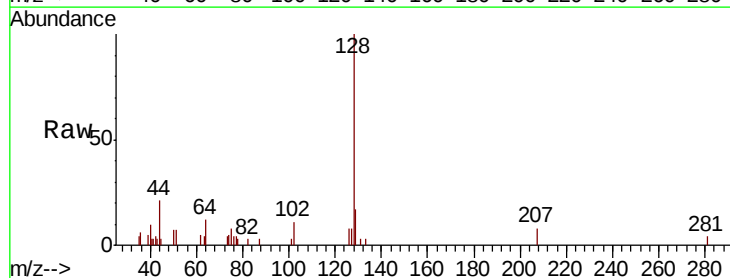
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW508-2327

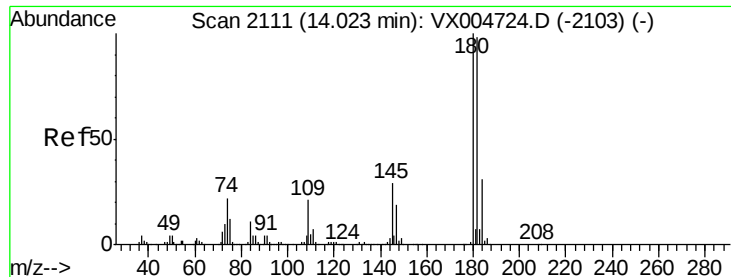
Tot Ion	Ratio	Lower	Upper
180	100		
182	99.6	48.4	145.0
145	35.7	14.3	42.9



#95
 Naphthalene
 Concen: 0.888 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX004877.D
 Acq: 01 Oct 2018 18:09

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.9	10.2	15.2#
129	20.1	8.6	12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.245 ug/l
 RT: 14.02 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VX004877.D
 Acq: 01 Oct 2018 18:09

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW508-2327

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.5	48.5	145.6
145	74.2	14.9	44.9#

